The Resonator

Official Newsletter of the Fair Lawn (NJ) Amateur Radio Club

Volume 11, Number 8 **www.FairLawnARC.org** **August 2026**

Inside This Issue

1	President's Message
2	Family Picnic & Portable Day poster
3	Entry Level License Class announcement
5	The Art of the Fox Hunt – W2KBF
6	FLARC Fox Hunt Rules
7	Fox Hunt Results & Picnic Photos
11	FLARC Info Flyer
12	Officers, Committees and Assignments
15	Fort Lee Public EmComm Demonstration
16	FLARC Club Apparel
17	2026 Hamfest Sponsors – Thanks to them!
19	Theoretics – Fred W2ABE
20	Hamspeak – Fred W2ABE
20	Portable Ops SIG – Coming Events
21	How FD Brought me to FLARC – KR2H
23	Emergency Communications Special (reprint)
26	Contest Corner
28	Pay FLARC Dues On-Line
29	FLARC Membership / Renewal Form
30	Business Meeting Notes

I would also like to recognize Karl W2KBF, Fred KR2H and Ken W2SCT – whose generous contributions to our "Paella Fund" helped make that part of our Family Day possible. Thank you, gentlemen, for your generosity and support of the club.

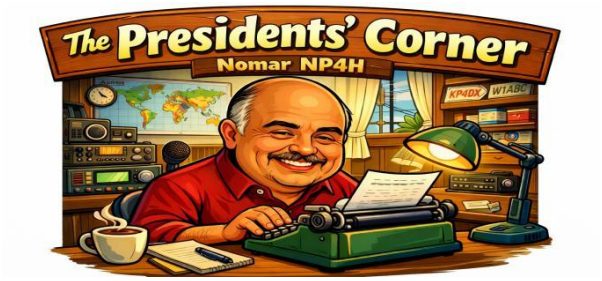
And finally, thank you to every member and family member who spent the day with us. It was wonderful seeing familiar faces, meeting members of our extended FLARC family, and simply enjoying each other's company.

I hope Portable/Family Day will be one of many more opportunities for us to gather outside the clubhouse—not only to enjoy amateur radio, but to strengthen the friendships and fellowship that have sustained this organization for seven decades.

Radios bring us together, but people make us a club.

Let's continue keeping the FLARC Family strong, active, and united.

73, Nomar, NP4H
President, Fair Lawn Amateur Radio Club



August has given us another wonderful reminder of what makes the Fair Lawn Amateur Radio Club such a special organization.

As FLARC continues celebrating its 70th anniversary, we have had many opportunities this year to enjoy amateur radio together. Most recently, our members participated in the W1AW/2 America 250 New Jersey activation, putting FLARC on the air as part of the nationwide celebration leading toward America's 250th anniversary. Band conditions may not always have been our friend, but our members remained enthusiastic and made the most of the opportunity to operate this historic callsign.

The highlight of the month, however, was our Portable/Family Day at Memorial Park. Mother Nature cooperated, the turnout was excellent, and five portable stations were on the air. But as enjoyable as the radio activity was, what made the day particularly meaningful was seeing so many FLARC members together and having the opportunity to welcome their families.

There was plenty of radio, food, conversation, laughter, and good old-fashioned fellowship. Days like this remind us that the strength of FLARC isn't measured only by how many contacts we make or how many stations we can put on the air. It is measured by the people who make up our club and the friendships we have built along the way.

My sincere appreciation goes to the entire FLARC team and to everyone who contributed their time and effort to making the event run so smoothly. From the planning and preparation to setup, operating, serving, cleanup, and the countless little jobs in between, it takes many hands to make an event like this successful. Thank you to everyone who stepped forward and helped.

Special thanks go to Chef Serafin for the delicious meal he prepared for us—and for surprising us with some additional goodies along the way. The paella was certainly one of the stars of the day and, judging by the post-meal activity level, may have caused several operators to temporarily go QRT!

FAIR LAWN
70 YEARS
N J
1956 2026
AMATEUR RADIO CLUB
You're Invited!
FLARC FAMILY PORTABLE DAY & Picnic
CELEBRATING 70 YEARS OF AMATEUR RADIO, FRIENDSHIP & PUBLIC SERVICE!
SUNDAY AUGUST 9, 2026
BEGINS AT 9:00 AM
MEMORIAL PARK PAVILION FAIR LAWN, NEW JERSEY
★ BRING YOUR FAMILY AND SPEND THE DAY WITH YOUR FLARC FAMILY! ★
AMATEUR RADIO
MAKING CONTACTS – MAKING FRIENDS
MEMORIAL PARK PAVILION
FOX HUNT
STARTS AT 11:00 AM
Delicious Paella ★ Lunch ★
PREPARED BY AWARD-WINNING Chef Serafín
★ ENJOY A DAY FILLED WITH: ★
PORTABLE AMATEUR RADIO OPERATIONS
DELICIOUS PAELLA LUNCH PREPARED BY CHEF SERAFÍN
FOX HUNT AT 11:00 AM
HAMBURGERS & HOT DOGS FOR EVERYONE!
FAMILY FUN, FRIENDSHIP & GREAT CONVERSATION
RELAXING DAY OUTDOORS AT OUR BEAUTIFUL PAVILION
EVERYONE IS WELCOME – LICENSED HAMS, FAMILIES, FRIENDS & FUTURE HAMS!
CONGRATULATIONS TEAM SPAIN!
— 2026 FIFA WORLD CUP CHAMPIONS —
THIS IS A FREE EVENT FOR ALL FLARC MEMBERS AND THEIR FAMILIES!
RSVPS ARE NECESSARY.
PLEASE RSVP TO:
Gene Ottenheimer, WO2W
genewo2w@gmail.com
Let us know you're coming!
VOLUNTARY CONTRIBUTIONS TOWARD THE EVENT ARE WELCOME.
WE ALSO WELCOME DESSERTS TO SHARE!
Thank You!
A SPECIAL THANK YOU TO
KARL FRANK, W2KBF,
FOR GENEROUSLY HELPING SUBSIDIZE A PORTION OF THE COST OF THE PAELLA.
Let's celebrate 70 years of signals, service and the friendships that make FLARC so special!
FAIR LAWN AMATEUR RADIO CLUB ★ ON THE AIR. IN THE COMMUNITY. FOR 70 YEARS. ★ WWW.FAIRLAWNARC.ORG

The Westchester Emergency Communications Association
Box 831 Sleepy Hollow, NY 10591
www.weca.org

Entry Level Ham Radio License Class This Fall!

2026 In-Person and Zoom Classes start Tuesday Evening, September 15th

Have you ever thought about becoming an Amateur Radio "Ham" operator? Here is a great opportunity to learn about Ham radio and to study for your FCC license with seasoned Ham radio operators as your teachers and mentors!

The Westchester Emergency Communications Association (WECA: www.weca.org) is proud to sponsor a **free** Technician Class License course, **in-person** at the Westchester Fire Training Center, 4 Dana Road, Valhalla, NY 10595** **and also on Zoom**. Take your first steps and join the exciting world of Amateur Radio. Enjoy talking to other Amateur Radio Operators, near and far! Want to experiment with new technologies that utilize computers interfaced with radios? Would you like to join forces with county government and local volunteer organizations as Amateur Radio Operators for Emergency Communications assistance and Public Service events? Take your first steps by joining us for this interactive course taught by a team of knowledgeable Amateur Radio Operators with a passion for their subjects.

*You can get an Amateur Radio Technician FCC license by passing a 35-question multiple-choice examination. **No Morse code test** is required! The exam covers basic regulations, operating practices, and electronics theory, with a focus on VHF and UHF communications. All information needed to pass the test will be covered in this course.*

Equipment costs to get on the air are as low as $25 for a full-function radio!

The required text is the "*ARRL Ham Radio License Manual **6th Edition***". The book includes all questions in the test pool and access to on-line practice tests. An accompanying text, "*ARRL's Tech Q&A 9th Edition*" may be helpful, but is not necessary. These are available from:

- ARRL, https://home.arrl.org/action/Store/Product-Details/productId/2097393415
- Gene, KJI Electronics, Cedar Grove, NJ, Call or text him at 973-571-1930
- Amazon, www.amazon.com Be **sure** to order the correct editions.

Please obtain the license manual and begin reading.

Classes will start on Tuesday evening, September 15th and run for nine weeks mostly on Tuesday evenings from **7-9:15 PM ET**. FCC license testing is available at various locations (typically $15 test fee).

If you or someone you know would like to **become an FCC licensed Radio Amateur**, please contact me by email at Education@WECA.org so I can register you and provide additional information. All are welcome to attend who wish to gain knowledge of amateur radio even if you do not expect to take the test. Licensed amateurs who would like to brush up on the subjects covered are also welcome.

Check out WECA's Training Website: www.WECA.APP

Larrie Sutliff W2UL WECA Education Director

** Classroom students: We enter the Fire Training Center through the rear door (the front door is typically locked/no parking). From Route 9A, with the Hawthorne Home Depot at your back, proceed East on Dana Road about 2/10 of a mile, past 4 Dana Road, and turn right on Walker Road. Park in the long lot on the right (Lot 2E between 25 and 35 Walker Rd), go down the outdoor stairway, pass the trailer, turn right (twice) and enter through the outside door for Classroom #3. Handicapped access is available at the training level- just park in front and use the security phone or call me on 732-693-4504.

ARRL is celebrating a year-long Worked-All-States operating event celebrating America's 250th Anniversary.

Details can be found at
https://www.arrl.org/america250-was

Working All States toward achieving your America250 WAS by contacting W1AW/Portable Stations: There will be week-long activations of portable W1AW/portable stations in all 50 states, and potentially in several US Possessions/Territories, that will generate on-air activity to achive this unique WAS Award. For this operating event, ARRL will provide a listing of all W1AW/portable stations, who will each operate for 7 days (from a Wednesday through the following Tuesday) for 2 separate weeks in the year (an early week between January and July, and a late week between July and December). A few weeks will be listed as non-W1AW/portable weeks due to contests and ARRL Field Day.

The web link to the schedule of when each state will be on the air is gigantic, and the table of stations even bigger. Use the following 'short link' to fetch the schedule:

https://bit.ly/arrl-w1aw-america250

The Art of the Fox Hunt

by Karl Frank, W2KBF

Hidden Transmitter Hunts are one of the healthiest Amateur Radio activities because they get us out of our chairs and into the great outdoors. Neither a license nor fancy equipment is needed for success.

With just a Baofeng radio Steve WI2W can be first to home in on the Fox while the rest of us still are wandering about with directional antennas and offset attenuators. My point is that skill and experience trump fancy equipment, and the Fox Hunt on August 9th will provide an opportunity to gain both.

It is unlikely that any of us will be called upon to use Radio Direction Finding (RDF) to locate a lost camper or downed aircraft, but there have been occasions in Bergen County in which an unattended transmitter has failed and transmitted on a repeater input frequency, thereby timing out the repeater and rendering it useless until the offending transmitter is located. It is good for clubs that operate a repeater to have members who are skilled at RDF.

There are at least four main approaches to RDF:

1) **RF Shielding:** a clue as to the location of the hidden transmitter can be gained by holding a handi-talkie near your body and turning around. There will be a dip in received signal strength when the radio is facing away from the transmitter – since your body will block some of the RF. Alternatively, metallic objects such as automobile hub caps, empty Pringles cans and toilet paper tubes wrapped with aluminum foil may be used. More attenuation can be obtained if needed simply by disconnecting the antenna from the radio and/or substituting the antenna with the end of a paper clip;

2) **Directional Antennas with Attenuators:** many FLARC members are familiar with the properties of Yagi antennas and have built tape measure beams for Fox Hunts (and satellite work). The S meter of a receiver will read full scale when closing in on the Fox regardless of the direction in which the beam is pointed, so it helps to use a signal attenuator with a directional antenna. Also, some attenuation may be obtained by holding the beam horizontally if the transmitter is vertically polarized;

3) **Time Difference of Arrival:** a circuit switches rapidly, at an audio rate, between two vertical antennas that are spaced between 1/3 to ½ wavelength apart at the frequency of interest. As the antenna array is rotated, an FM receiver cannot tell the difference between the two antennas when they are an equal distance from the hidden transmitter because the two antennas are receiving the RF signal in phase. But when there is a difference in distance (and therefore phase) between the two antennas, an FM receiver will generate an audible tone. When the hunter hears no tone, this means the antennas are receiving the signal in phase and the Fox is either directly ahead OR directly behind them; [1]

4) **Detune your receiver:** if your S meter is pinned as you close in on the Fox, you can tune a few kHz above or below the transmit frequency.

Alternatively, you can tune to the 3rd harmonic of the transmitter, taking advantage of the fact that no transmitter is perfectly clean, but will emit harmonics that are many dB down from the fundamental. So, if the Fox is transmitting on 146.565 MHz, you may tune to 439.695 MHz to get a weaker signal and reduce the S-meter reading.

---

[1] Here are some links if you want to look into TDOA further —

https://medium.com/@tom.kaneko/how-to-time-direction-of-arrival-tdoa-2e5ecaa6fad2

https://www.youtube.com/watch?v=JVGf28ckHyg
[five minute YouTube on a homebrew unit]

https://ham.stackexchange.com/questions/5261/antenna-circuit-to-hear-or-show-radio-direction

https://www.decodio.com/products/localizer/
[a bit more technical]

Fox Hunt (Hidden Transmitter) Rules for August 9th FLARC Family Picnic

Here are the guidelines for the Amateur Radio Fox Hunt that will take place on August 9th during our Portable/Family Day Activity.

- We will use a frequency of 146.565 MHz (FM) and will attempt to dodge around the Noon lunch hour.
- No license is required to participate since you only need to use a receiver.

1) The first Fox Hunt will start at approximately 11 AM at the shelter in Memorial Park and will be conducted on foot. The MicroFox transmitter will be hidden somewhere within the borders of Memorial Park and the adjacent Memorial Middle School. Experienced Foxhunters will be available to act as Elmers. The MicroFox is programmed to transmit tones for approximately 30 seconds, go silent for approximately 30 seconds, then resume this cycle. The MicroFox will be located above ground, but no higher than 6 feet above ground, and may be in plain sight or may be obscured by existing foliage and vegetation.

2) The second Fox Hunt will require hunters to use an automobile (or bicycle) and will begin at approximately 1 PM at the shelter in Memorial Park. Fred KR2H will be the Fox, hiding somewhere within the borders of Fair Lawn, and will make voice transmissions lasting approximately 30 seconds followed by a 30 second period of silence, then repeat this pattern. The Fox may use a hand-held or mobile radio. The Fox must be located in a place that is accessible to the general public, e.g. on a Street or Parking lot in Fair Lawn and must remain stationary. It may be helpful for hunters to team up, so that one person can focus on driving safely while the other operates a radio.

The Fox may add interest to the hunt by taunting the hunters and, at his discretion, offer clues as to location if the hunters are not making good progress (e.g. "I am located North of Morlot Avenue"). This should not last more than about an hour, in order to minimize hunter fatigue.

-- Karl W2KBF

https://www.besthamradio.com/ham-radio-fox-hunting/

Image Source: RadioReference.com Forums

When it comes to tracking down hidden transmitters, your choice of directional equipment can make or break your success. I've seen frustrated hunters fail simply because they picked the wrong tools for the job. The fox hunting community has developed some pretty specialized equipment over the years, and you've got options ranging from weekend DIY projects to commercial solutions.

https://byonics.com/foxhunt

TDOA Sniffer

This is a TDOA (Time Difference Of Arrival) antenna switcher that, when combined with a radio receiver, will tell the direction to a transmitter. It generates an audible tone on an 2-meter FM receiver when the two antennas are not the same distance from the transmitter, and thus receiving the signal out of phase from each other. That tone will fade away when the two antennas are rotated as they become equidistant from the transimtter, and fall into phase.

Foxhunt Attenuators

Foxhunt attenuators can be used to help find a nearby hidden transmitter in the last few hundred feet by lowering the received signal strength to a level that is discernable. They have a male and female SMA connection so they can be easily inserted between a radio and an antenna.

Fox Hunt Results

Winners of the first Fox Hunt (within the park) –

1) Glenn KE2IUB

2) the team of Raz KE2FEB and friend Li;

3) Brian KD2KLN;

4) Stan AA2EI

Winners of the second Fox Hunt
(within Fair Lawn town) –

1) the team of Karl W2KBF with Chris N2NDV;

2) the team of Raz KE2FEB and friend Li

The Microfox Hidden in a Tree
[it IS in plain sight, if you look in the right place!]

Chris N2NDV standing by the Microfox with the "tape measure" directional antenna

Chris N2NDV and Karl W2KBF, behind Fred KR2H aka "The Fox" at the Fair Lawn Senior Center.

Picnic Photos

Since we haven't published the August newsletter (this one!) yet, we'll squeeze in some photos from the FLARC Family Picnic / Portable Day instead of waiting for next month.

Our Hamburger Ham

First Place Doorprize winner Mitch KD2IIU (C)
Announcer Marc KE2MT (L)
Ticket Picker Gene WO2W (R)

Picnic Photos

W2JC's portable setup

Showing off the "tape measure antenna" that found the Fox

WI2W's portable setup

WO2X remote controlling his Hawaii station

The Pavilion was really full

Waiting on line for lunch and paella

Fred KR2H ready for some CW QSOs

Photo credits: WO2W & W2KBF

Picnic Photos

W2JC's G-90 rig and laptop in Sun Shield

"Eyeball QSOs" everywhere

A radio on every table

Some day I'll figure this thing out…

"I'm sure I heard a P5 calling me"

Photo credits: W2JC

2026 Dues are due now

New members: only $20 for your first year ! And if you sign up after October 1st you get next year free.

There are no changes to dues for the upcoming year. Renew now, and let us know what activities or features would make you more active with the club.

Please makes checks payable to:
"**Fair Lawn Amateur Radio Club**"
and send them to:

Fair Lawn ARC
– Attn: Secretary
10-10 20th Street
Fair Lawn, NJ 07410

Please include a member application form with your $25 check **regardless of your member status.**
It can be found at
https://fairlawnarc.com/membership.html

The Resonator Is Now Archived!

Ever wanted to search for something in *The Resonator*? Maybe a member profile. Perhaps a past Street Fair. Even who participated at Field Day in 2017.

Now you can. *The Resonator* has now been accepted as part of the Digital Library of Amateur Radio and Communications. DLARC is a project of the Internet Archive (the not-for-profit online library best known for *The Wayback Machine*.) DLARC is growing to be a massive online library of the past and present of ham radio and related communications. It is funded by a grant from Amateur Radio Digital Communications.

When you need to find something, go to: https://archive.org/details/flarc-resonator

You can use the search "text contents" field to do a full-text search on all issues or click "Date Published" to see them sorted by publication date.

Get Direct With FLARC!

Here is a direct link to specific club info: just a click away!

http://apparel.FairLawnARC.org
http://auction.FairLawnARC.org
http://blog.FairLawnARC.org
http://calendar.FairLawnARC.org
http://events.FairLawnARC.org
http://exams.FairLawnARC.org
http://facebook.FairLawnARC.org
http://news.FairLawnARC.org
http://swap.FairLawnARC.org
http://tech.FairLawnARC.org
http://youtube.FairLawnARC.org

https://groups.io/g/FairLawnARC

EmComm SIG Updates

[Emergency Communications via Ham Radio]

Amateur radio operators use their training, skills, and equipment to provide communications during emergencies. Hams serve our communities when storms or other disasters damage critical communication infrastructure, including cell towers, and wired and wireless networks. Amateur radio can function completely independently of the internet and phone systems. An amateur radio station can be set up almost anywhere in minutes. Hams can quickly raise a wire antenna in a tree or on a mast, connect it to a radio and power source, and communicate effectively with others.

The **FLARC EmComm SIG** is working closely with the NENJ-ARES group (North East NJ) to create an area-wide corps of well prepared hams who can handle emergency communications accurately and efficiently.

Times have changed and we can now use digital message formats as well as voice messaging.

If you would like to learn more about this phase of ham radio, send an email to —

main+owner@NENJ-ARES-EMCOMM.groups.io

FAIR LAWN
70 YEARS N J 1956 2026
AMATEUR RADIO CLUB

The Fair Lawn Amateur Radio

Why is FLARC New Jersey's Most Exciting Radio Club?

Annual and Special Events

- Field Day
- Winter Field Day
- World Amateur Radio Day
- Portable Day
- Earth and Environmental Days
- Field Trips
- Special Even
- Public Service Activities
- Public Events
- Ham Fests and Auctions
- Foxhunts
- Youth Activities and more

There Is Something Every Night At FLARC!

- Monday: Near and Far Net
- Tuesday: DMR Net and Open House at the clubhouse
- Wednesday: ARES/RACES Net
- Thursday: Tech Net
- Friday: Open House at the clubhouse or Kawfee Towk Speaker Series (Monthly via Zoom) Weekends: Open House at the clubhouse, POTA and other station activations, Contests, Foxhunts

Plus:

- A five-position operating station clubhouse
- An active repeater—W2NPT linked with NJ2BS.
- New antennas on the roof
- Monthly VE testing
- An award-winning newsletter
- Monthly speaker programs
- Educational programs and activities
- Active public service participation
- An extensive video education archive

That is Why FLARC is the Most Exciting Club Around!

Come join us In-person or via Zoom for more activities, speakers, and projects!

www.fairlawnarc.org YouTube

The Club Fair Lawn ARC Inc. is the fastest growing ham club around, with five operating positions in a permanent clubhouse. Visitors and guests are always welcome. The club is open every Friday night, except when there is a Business Meeting scheduled, from NLT 6:30 PM. Business meetings are the first Friday of the month at 7:30PM.

2026 Officers, Committees and Assignments

President	**Nomar Vizcarrond**	**NP4H**
Vice President	**Gene Ottenheimer**	**WO2W**
Treasurer	**Bob Antoniuk**	**N2SU**
Secretary	**Jim Cooper**	**W2JC**
Trustee	**Lowell "Van" VantSlot**	**W2DLT**
Trustee	**Noel Pagan**	**W2MSA**
Trustee	**Skip Barker**	**KD2BRV**
Member Services Health & Welfare	**Judith Shaw**	**KC2LTM**
Marketing	**Nomar Vizcarrondo** **Jim Cooper**	**NP4H** **W2JC**
Program	**[open]**	
Video/YouTube	**[open]**	
Social Media	**Brian Duddy** **Thom Guida** **Dave Marotti**	**N2BTD** **W2NZ** **NK2Q**
Photographer	**Robert Marchini**	**KD2SOG**
Community Relations	**Gene Ottenheimer** **Dave Gotlib**	**WO2W** **KD2MOB**
Field Day 2026	**[open]**	
Winter Field Day 2026	**Noel Pagan**	**W2MSA**
Hamfest	**[open]**	
Auction	**[open]**	
Education	**[open]**	
Youth Outreach	**Robert Marchini**	**KD2SOG**
Adult Outreach	**Lowell "Van" VantSlot** **Jim Cooper**	**W2DLT** **W2JC**
VE Testing Coordinator	**Gene Ottenheimer**	**WO2W**
Special Events	**James Gallo**	**KB2FMH**
Contests	**Fred Belghaus**	**KR2H [W2AAB]**
FLARC Historian	**Fred Belghaus**	**KR2H [W2AAB]**
Webmaster ***Asst. Webmaster***	**Jim Cooper** **David Kozinn**	**W2JC** **K2DBK**
Technical Chair	**Dave deCoons**	**WO2X**
EmComm ***RACES/ARES Director*** ***RACES/ARES Liaison***	**Jim Breheny** **Dave Gotlib** **Steve Wraga**	**N2JLF** **KD2MOB** **WA2BYX**
Newsletter Editor ***Newsletter Publisher***	**Jim Cooper** **Jim Cooper**	**W2JC** **W2JC**
Club Station Manager	**Noel Pagan**	**W2MSA**
Quartermaster	**Brian Cirulnick**	**KD2KLN**
Curator	**Fred Wawra**	**W2ABE**
W2NPT Trustee	**Jim Cooper**	**W2JC**
NK2H Trustee	**Ed Efchak**	**WX2R**

President serves as ex officio to all committees

Want a Call Sign License Plate?

Amateur Radio (Ham operators) license plates may be purchased for a $15 fee, for passenger vehicles, but not for commercial vehicles or motorcycles. (Applicants must be licensed by the Federal Communications Commission.)

Call MVC at 609.292.6500 or (toll free in NJ) 888.486.3339 to request an application.

The club has applications from time to time. If you would like an application, visit the "contact us" page, and we'll get one out to you.. Or find the form and detailed instructions at:

https://www.state.nj.us/mvc/pdf/vehicles/SP-23.pdf

Letters:
A feature of *The Resonator*

The editor has received a lot of nice notes, letters and comments about this newsletter and the club in general. We have not published them in the past but going forward we will at least try.

Here are the grounds rules:

- *Please keep all comments as brief and succinct as possible.*
- *No personal attacks.*
- *No political rants.*
- *No comments promoting violence, racism, religious intolerance, vulgarity, obscenity, or other such discourteous behavior.*
- *The Editor reserves the right to exclude any comments that violate our guidelines and may subject the writer to further disciplinary action by the club.*

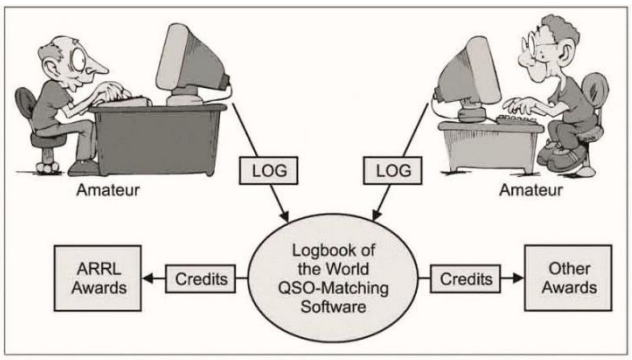
A QSL card is the final courtesy of an amateur radio contact.

https://en.wikipedia.org/wiki/QSL_card

INCOMING QSL Bureau -- if you have been making on-the-air contacts, you might very well have a package of exciting QSL cards from around the world waiting for you at the incoming QSL Bureau. If you previously received cards from them, check to see if you have any "credits" left by going to https://www.njdxa.org/?page_id=869 If you never contacted them, they probably have cards for you! Go to this page -- https://www.njdxa.org/?page_id=25 and get some 'credits' to cover the postage for mailing your cards to you. For an interesting video describing the history of exchanging QSL cards, visit https://www.youtube.com/watch?v=3vsl-b3WCjc

To learn about the W2 Bureau, https://www.njdxa.org/?page_id=30

To learn about the ARRL Outgoing QSL Bureau (for overseas cards you send) visit https://www.arrl.org/outgoing-qsl-service



Those who upload logs to Logbook of the World become eligible to redeem confirmation credits for awards. LoTW wants and needs *all* logs. Uploading is free, so send your logs today!

Follow FLARC ON THE WEB

Facebook: http://facebook.FairLawnARC.org

Twitter: @FairLawnARC

Youtube: http://youtube.FairLawnARC.org

Website: http://FairLawnARC.org

SIG Group Membership

Here is an update on the Special Interest Groups… many groups have increased in size during the last month. About 45% of all members have joined at least one group.

SIG Name	Leader
Contesting	W2DLT
Digital Voice	N2AAM
Drones	KB2BEE
EmComm	N2JLF
Mesh Net	W2KBF
Monitoring	WX2R
DX	W2JC
FT8	W2JC
Satellites	N2AAM
Portable Ops	W2MSA
Radio Astronomy	WX2R
Raspberry pi	[open]
Direction Finding	W2KBF

* **New group**

Sign up for a group... or … why not start one?

Contact webmaster@FairLawnARC.org if you would like to start a new Special Interest Group.

The Clubhouse Is Open THREE Fridays In August!!

Date	Clubhouse Status
August 7	CLOSED – Business Meeting at Fair Lawn Senior Center
August 14	OPEN
August 21	OPEN
August 28	OPEN

Pop-Up Tuesdays are in-person at the club.

FORT LEE CONNECTED

WHEN OTHERS CAN'T, AMATEUR RADIO CAN

SATURDAY, SEPTEMBER 19, 2026
10:00 AM – 4:00 PM
FORT LEE, NJ
Location to be announced

A PUBLIC DEMONSTRATION OF HOW AMATEUR RADIO OPERATORS HELP OUR COMMUNITY WHEN POWER, CELL SERVICE, AND THE INTERNET ARE DOWN OR VERY LIMITED.

- We simulate a loss of communications in Fort Lee.
- Operators use a nationwide network (NTS) to send messages.
- Messages are sent on standard Radiogram forms using numbered codes.
- The goal: connect people and share important health and welfare information.

WELFARE MESSAGE CODES (All Precedence "W")

CODE	MEANING
1	Everyone safe here. Please don't worry.
2	Coming home as soon as possible.
3	Am in hospital. Receiving excellent care and recovering fine.
4	Only slight property damage here. Do not be concerned about disaster reports.
5	Am moving to new location. Send no further mail or communication. Will inform you of new address when relocated.
10	Please contact me as soon as possible.
12	Greetings by Amateur Radio.
13	Medical emergency situation exists here.
15	Please advise your condition and what help is needed.
19	Request health and welfare report on _____.
20	Temporarily stranded. Will need some assistance. Please contact me at _____.
32	I am able to receive your message by Amateur Radio.
33	All expenses are paid.
34	No expense is too great to ensure safe delivery of this message.
36	Did you receive my message?
38	Can you relay this message to _____?

Operators will convert your message to the appropriate ARL code.

WHAT IS A RADIOGRAM?

A Radiogram is a standard form used by amateur radio operators to send written messages by radio.
It is similar to an email, but travels over the air when other systems are not available.

RADIOGRAM

NUMBER	PRECEDENCE
HX	W
STATION OF ORIGIN	

CHECK	PLACE OF ORIGIN	TIME FILED	DATE

TO

PLACE OF DESTINATION	TELEPHONE

TEXT

FROM	DATE	TIME

FORM ARRL 104 (REV. 1/97)

SEND A FREE WELFARE MESSAGE!

- ✓ Tell us the message you want sent.
- ✓ We write it on a Radiogram using a numbered code.
- ✓ We send it by radio to another operator.
- ✓ They deliver it to the person you designate.

HOW IT WORKS (SIMPLE!)

1. You give us a message (e.g., "Everyone OK. Please don't worry.").
2. We write it on a Radiogram using the numbered codes.
3. It is sent by radio to another operator who delivers it.

No license required to participate.

SPONSORED BY

NENJ ARES
Northern New Jersey Amateur Radio Emergency Service
Affiliated with the American Radio Relay League (ARRL)
www.arrl.org

EVERYONE WELCOME!

See amateur radio in action.
Ask questions.
Learn how we help our community.

ABOUT NENJ ARES

NENJ ARES is a team of trained volunteer amateur radio operators who provide emergency communications support to local communities and public service agencies throughout Northern New Jersey.
We train. We serve. We're here when others can't.

WHEN OTHERS CAN'T, AMATEUR RADIO CAN ★ PEOPLE HELPING PEOPLE.

www.nenjares.org | info@nenjares.org

Vast Archive of FLARC Activities and Info

Members are reminded that we have a large archive of YouTube videos of our previous many years of Kawfee Tawk™ presentations, which cover many aspects of ham radio. Our mostly unsung hero club videographer, Thom W2NZ, has spent thousands of hours of his own time creating really professional quality videos of these 167 presentations. Visit our club YouTube page and you will see all of them listed on the main page, at http://youtube.FairLawnARC.org

Another large and rather unused archive is that of our seven years of the club newsletter, The Resonator. They provide a nice historical record of the many activities of FLARC over the years, as well as lots of useful info about ham radio and electronics. The entire archive is at http://newsletters.FairLawnARC.org

And don't forget the FILES area of our groups.io website, where useful and important info is saved:

https://fairlawnarc.groups.io/g/main/files

FLARC July 18, 2026 VE Testing Results

Gene **WO2W** reports the following results:

Name	Call	License Earned
Paul Zeszotarski	KE2AVB	General

Testing for next month will be at the Fair Lawn Recreation Center.

Club Apparel — Get Them While They're RED!

Club apparel is always in vogue. Red is always "in" and your club friends all have them… you *want* a shirt or jacket for the next FLARC event! Great for Field Day!

Don't forget…. they're easy to order.
Go to www.hamthreads.com
or visit http://apparel.FairLawnARC.org

Check out the item selection that is posted on the FLARC website (with pictures and prices). Order the shirts or other items you want with either the regular FLARC logo or the still-cool 60th anniversary logo. Note: **RED** is the primary and preferred club standard shirt color**.**

And why not WEAR your nice red shirt when you come to the club, especially for meetings and events.

It's easy to spot FLARC members wearing their red club shirts !

Ham Radio Is Contagious But It Won't Make You Sick!!

2026 FLARC Net On The W2NPT Repeater:

Near and Far Net • Mondays at 8PM

W2NPT Repeater and EchoLink

Continued on next page.

FLARC Thanks the generous SPONSORS of our 2026 Hamfest

2026 FLARC HAMFEST	DOOR PRIZES
ITEM	Donated By
FT-60R Dual Band HT	Gene K2KJI K2KJI Electonics
$100 Gift Certificate $100 Gift Certificate	DX ENGINEERING www.DXEngineering.com • 1-800-777-0703
$50 Gift Certificate $50 Gift Certificate $50 Gift Certificate $50 Gift Certificate	Alpha Antenna alphaantenna.com/
$50 Gift Certificate $25 Gift Certificate $25 Gift Certificate	ARRL.org
Book - Ham Radio Facts	The Fast Track AF7KB Books https://fasttrackham.com/ Michael Burnette, AF7KB & Kerry Burnette, KC7YL The EASY WAY Amateur Radio Study Guides & "How-To" Series
Book - Ham Radio Facts	
Book -Ham Radio antennas	
Book -Ham Radio antennas	
Book - Up the Tower	
Book - Understanding Amateur Radio Mathematics	
Book - Getting on the air	
Book - Understanding Ham Radio Propagation	
BLF-1212A 12ah Battery & charger	Bioenno Power BioennoPower.com
BLF-1212A 12ah Battery & charger	
BLF-1215A 15ah Battery & charger	
BLF-1215A 15ah Battery & charger	
BLF-1220A 20ah Battery & charger	
$50 Gift Certificate	Wayne Electronics

Special Note: *The IRS now requires that we disclose annually the use of paid lobbyists to our members and indicate approximately what percentage of their dues goes toward that. 0% of your dues payment will be used by the club to directly pay a lobbyist firm to lobby on behalf of all our members regarding pending legislation that impacts our hobby.* ***The ARRL does that for us.***

Content and opinions expressed by contributors do not necessarily reflect the policies of the Fair Lawn Amateur Radio Club Inc., its Officers or members. Contributors grant express permission to FLARC to distribute articles in this or any issue of The Resonator. Authors also grant express permission for the use and/or repurposing of these articles, in part or in full, in other publications with credit to the original author and to The Resonator. All material is copyright ©2026-08-11.

https://newhams.info/

BEQUEATHS AND DONATIONS

Planned gifts usually imply the family donation of amateur equipment to the club when someone has become a Silent Key. But it can be more. Club members might consider making a gift through a will or trust; gifts that help provide lifetime income to the club. Consult with your lawyer, estate planner or tax advisor if you feel such as gift is worthy.

This is YOUR club.... Be a part of it !!

About The Club

The Resonator is published monthly and is the official (and only) newsletter of The Fair Lawn Amateur Radio Club Inc. FLARC was established in 1956 and has met continuously since inception. **The club is sponsored by the Borough of Fair Lawn.** The club meets every Friday, except when a Business Meeting is scheduled, at 6PM at the club station in The Fair Lawn Community Center, 10-10 20th Street, Fair Lawn, NJ. Business meetings are the first Friday of the month at 7:30 PM at the Fair Lawn Senior Center, and on Zoom**.**

Visitors <u>ARE ALWAYS</u> welcome at our meetings.

FLARC operates the W2NPT repeater (145.470- PL **167.9**) located high atop the Community Center. The analog repeater is open to all amateurs for use without restrictions. Our repeater is linked with the Alpine repeater.

The club has about 150 paid members.
Dues are currently $25 per year;
$20 for new members.

For more information, please see our website, at
http://membership.FairLawnARC.org

FAIR LAWN'S COMMUNICATIONS CENTER!

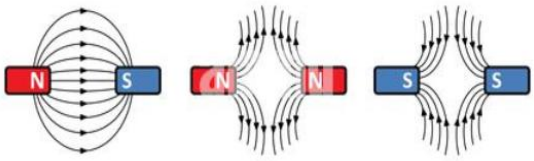
With Our Antennas On The Roof!

All content in *The Resonator* is protected by copyright ©2026.
No other use without permission.

Theoretics Demystified

This time we will investigate magnetism, what it is and how it works and how it affects us.

Magnetism is a force caused by moving electric charges. Magnetism comes from electrons where each has a north and south magnetic pole and a **motion** called SPIN. As they spin this causes magnetic attraction to other substances like iron and steel. Iron, steel and nickel all have a type of lattice structure which enables the electrons to line up in such a way as to react to magnetic force. When a magnet is placed near a magnetic reacting [ferrous] material like a steel screwdriver, the magnetic lines of force cause the random magnetic poles in the screwdriver to line up. As they line up, they then exhibit magnetic properties and are attracted to the strong magnetic force of the magnet nearby. The atoms in the screwdriver will act magnetically until they go back to a random state. Lines of magnetic force are illustrated below. Like poles repel, unlike poles attract!



Note that the atoms in a magnet have all their atoms lined up but their electrons are still spinning. The magnet itself is not moving but the electrons around the nucleus of the magnetic material are spinning, hence motion, hence magnetism! There are lines of magnetic force from any magnetic material as illustrated above. Like poles repel, opposite poles attract. The lines of force that extend from the magnets are why there is attraction or repulsion even though the magnets do not touch.

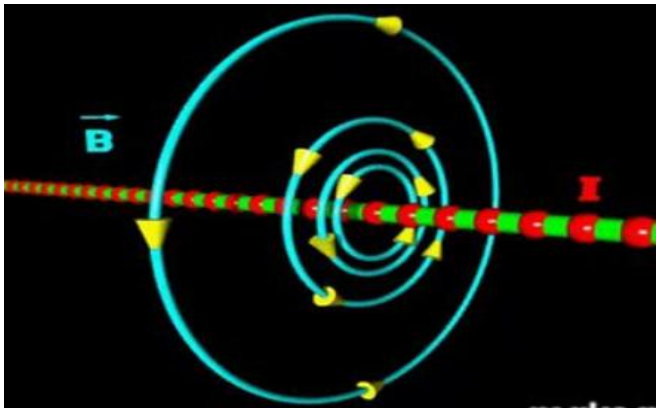
In substances where there are equal numbers of electrons spinning in opposite directions, their magnetism cancels out, such as wood or paper. When most of the electrons spin in the same direction this makes the substance strongly magnetic – such as in iron, cobalt and nickel.

A moving magnet near a conductor of electricity (like a copper wire) causes current to flow if the magnet is MOVING near the conductor. That is how electricity is generated for the power grid!

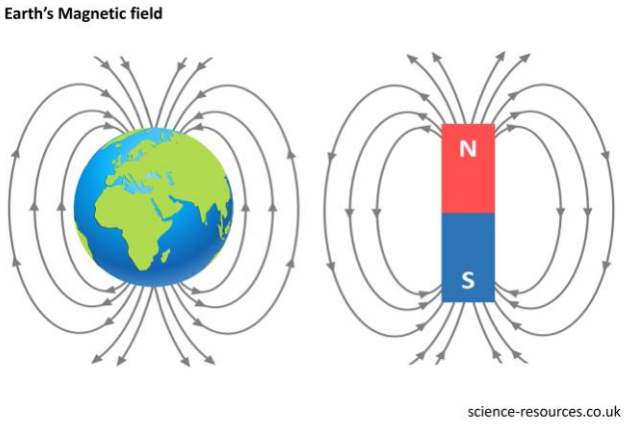
Conversely, a moving current in a wire or coil generates a magnetic field around it. That is how transformers work. One coil generates a magnetic field, and a second coil reacts to the first — generating electricity from the magnetic lines of the first coil.

Again, this only works when a **changing** magnetic field is present. This applies to all types of transformers at any frequency.

Below is a representative drawing of a wire [red=electrons / green=space between them] with the current flowing from left to right and the resulting blue lines of magnetic force.



Fred Wawra, W2ABE, 73.



Copyright material used with implicit permission of the author.

Hamspeak

This time — types of transformers.

Power transformers

This type operates at 60 cycles per second, so it has heavy steel construction. This is due to the power line frequency of 60Hz.

IF (Intermediate Frequency) transformers

This is a type of RF transformer. These are smaller and lighter, as the frequency is much higher; so there is no need for a big steel core. The wire inside is also much thinner. The aluminum case is there to provide RF shielding, because the case is normally grounded.

Audio Transformers

These are the little brothers of the power transformer. There are miniature versions, as in transistor radios [on the left] and larger versions [on the right]. The size is based on the amount of audio power used.

CHOKES

These are like transformers, but they have only one winding. They are wound specially to filter out leftover an AC component, called ripple, in power supplies – or as noise filters, as in older car radios. They look just like the audio transformer shown above.

Just for fun, here is a picture of a vintage audio transformer from the 1920s. These were very elaborate, as a lot of the radios were of a 'breadboard' style where everything was visible. Back then most radios were hand built so that looks were very important to the buyers.

Fred Wawra, W2ABE, 73.

FLARC PortableOps SIG

PortableOps@FairLawnARC.groups.io

This is a Special Interest Group (SIG) for members interested in portable ham radio operation such as POTA, SOTA, IOTA, LOTA, etc.
The purpose of this SIG is to get outdoors and practice our operating skills from different places. We can share outing experiences, tips and work on our operating skills.

FLARC Portable Day and Family Picnic Day and Fox Hunt

August 9th • Fair Lawn Memorial Park

- Bring the family and get to know the other FLARC families…
- Bring your portable rig (POTA, FD, EmComm) and show it off to everyone.
- More details to follow.

How Field Day Brought Me to FLARC

by Fred KR2H

Somewhere, hidden away in my first, long misplaced Novice Class Logbook is a series of entries made in late June, 1963. They were all on 40 and 80 meter CW, stations worked during the A.R.R.L. Field Day. They were confined to stations only in the W1, W2, and W3 call areas. In those days, my simple station and truly under-par antennas weren't capable of contacts much farther afield.

It was my first ever Field Day, but I was not yet a member of a radio club, so I operated from home. To be in the "spirit" of Field Day, I lugged my Globe Scout transmitter, Hallicrafters receiver, logbook, Dow-Key (antenna changeover relay), several crystals, and my trusty old straight key (Japanese knockoff of a J-38) outside and setup on a picnic table on our patio, and powered up using a very long but heavy extension cord plugged into a kitchen outlet.

Almost immediately after setting up, I endured an occasional dive bombing raid from a hornet, as I tried to put a few stations in the log. Eventually, a squadron of them from the Hornet Air Force swarmed me, forcing a hasty retreat to the safety of the kitchen – swatting with my logbook as I ran, and not returning for an hour or so until the hornets moved on to dive bomb somewhere (and somebody) else.

One of the stations worked was K2YCB/2. (The /2 meant that the station was operating away from home and portable somewhere in the Second Call Area, as FCC Regs required in those days). I knew the call K2YCB belonged to a Fair Lawn ham, so I was particularly interested in making the contact.

The next day, I met my neighbor Linda (WN2EKC) in the yard, and I told her of my Field Day experiences. She asked me if I'd worked K2YCB/2. Well, yes, I did, and I learned that the call was used by the Fair Lawn A.R.C.

Linda invited me to visit the club, which I did that Friday evening, at their club station on the second floor of the "Old Municipal Building" located on the corner of Gardiner Road and 11th Street. This is the same location as the Senior Center is now, where FLARC has its monthly Business Meetings.

Long story short, I became a member immediately, and started making new friends. I remained active in the club for two more years, until college and other interests intervened.

My first actual Field Day with FLARC was in 1964, an experience I'll never forget. We used Frank Leonard's call, W2NPT, that year. I was the 40 meter CW op, which required my operating with equipment loaned to the club from members. The transmitter was Frank Leonard's Heathkit DX-40 with a Heathkit VF-1 VFO (Variable Frequency Oscillator), which enabled quick frequency changes. The transmitter ran about 40 Watts output, and the VFO had an annoying habit of drifting and having a slight "chirp," due to poor mechanical stability and poorer voltage regulation.

The key I used was Frank Leonard's Vibroplex "bug." I don't remember which model, but I had already mastered semi-automatic keys while still a Novice, so it was easy for me to feel quite at home using this instrument. The receiver was a Hallicrafters SX-100, one of the better receivers in those days. It belonged to Tony Giszack, one of the adult members who was always "studying" for the Novice license without, to my knowledge, ever taking the test or any other amateur license test.

The antenna was a simple dipole, and I sat in a World War II Army surplus tent. I was fortunate to be situated in an area well shaded by trees. Our Field Day location was at a place in Hawthorne known as Blasberg's Fruit Farm, where the club had already spent at least one previous Field Day.

Continued on next page.

How Field Day Brought Me to FLARC, continued.

Blasberg's, alas, is no more. The family sold the land to developers many years ago, and today, if you drive north on Route 208 to where the highway climbs upwards in Hawthorne, and look to your left beyond the southbound lanes, you'll see a large outcropping of condos. That's where Blasberg's was once located.

The 1964 Field Day was largely uneventful, but I was curious about how well we did. I searched back copies of *QST* magazine, and found the 1964 Field Day results in the December issue.

We entered in the Four Transmitter Class (4A), using Frank's call, W2NPT. We came in at 36th place in 4A Class nationally. We made 663 contacts, and used two power levels, A and B. A meant 30 Watts maximum input, and B meant 150 Watts maximum input. (I cannot recall which equipment ran only 30 Watts or less, but it was probably VHF equipment using AM phone, and the rest of the contacts were on HF, using CW and AM phone). There were 11 persons participating (not all operators). Our final score was 5,466. That looks pretty good, but the high scoring station in the One Transmitter Class (1A) had only four operators and produced a score of 11,349 points!

In 1965, we received our first club call, WB2RLO. I don't remember what our transmitter class was, possibly 4A as before. We operated from private land (with permission) directly across from the old Boy Scout Camp formerly known as Camp Tamarack on Skyline Drive in Oakland. I've long forgotten the details of that Field Day, but it included several comical episodes.

Three of us stayed over Friday night in a small tent, but sleep was elusive, thanks to a very loud bullfrog whose deep-throated and insistent croaking made for a lot of tossing and turning. Around 2 AM, some flashlights shone through our tent, accompanied by a woman's voice, demanding to know who we were. We explained ourselves, informing the lady that we had the written permission of the property owner (a former state Assemblyman).

There were no bathroom facilities, so calls of nature had to be answered furtively, behind foliage, and sometimes, with the help of an Army surplus entrenching tool.

The 20 meter phone station was in a pickup truck covered with a tarp, and at night, I estimated that there were more moths flying around in there than could be found in all the other wooded areas of Bergen County. The 20 meter operator, by the way, was only a Novice Class. I presume, of course, that while he operated (with our Heathkit Apache and 3 element Hornet beam antenna), that there was at least one control operator with a General Class license somewhere nearby.

One other detail I recall is that after the 1965 Field Day was over, and we were returning equipment to our Headquarters in the Old Municipal Building, our Hornet tri-band beam met with a little mishap. One of our members managed to twist an element out of its mounting, and step on it. We heard a "crack" and held our breath. It was later repaired, but not without some fiery language being exchanged, first.

How did we do on our 1965 Field Day? I don't know. I searched the results in the November, 1965 *QST,* and though I looked through every single entry, I couldn't find us listed. Either a gremlin stole our logs, or somebody just forgot to send them in.

Oh well, that's life, as they say.

Field Day is many things to many people. Most importantly, it can be an introduction to not only the club, but to various aspects of amateur radio. Field Day brought me to FLARC, to friends and good times.

I hope Field Day will bring as much to you.

73, Fred KR2H

Emergency Communications Special

Does an EmComm drill have to be an EmComm drill? What if it's disguised as a special event? If the operators improve their skills at setting up and operating from a temporary location, it counts in our book. And all the better if it also showcases ham radio for the public, local officials, and more...

NPOTA at Great Falls

The Fair Lawn Amateur Radio Club's 60th Anniversary Special Event

BY ED EFCHAK,* WX2R

When the ARRL announced its 2016 support of the National Park Service's 100th anniversary with a program called "National Parks on the Air" (NPOTA), the Fair Lawn Amateur Radio Club in northern New Jersey was intrigued with the novelty of the concept. We welcomed the notion of a partnership between amateur radio and the national parks, as well as the opportunity to participate in a new and different ham venture. The club had operated W1AW from its Fair Lawn clubhouse station during the League's own centennial celebration in 2014, and many members were interested in participating in the centennial commemoration of an important American institution, the National Park Service (NPS).

The nearest NPS-administered site to our club is the Great Falls National Historical Park in Paterson (*Photo A*). Utilizing the power of the third-highest waterfall in eastern North America, Alexander Hamilton created in Paterson the first planned industrial city in the United States. The area was designated a National Historical Park in 2011, and is part of a large redevelopment/historical preservation effort by the National Park Service.

As one of the oldest amateur radio clubs in New Jersey, the Fair Lawn Amateur Radio Club (FLARC) is celebrating its 60th anniversary in 2016. One of our goals for this cele-

* email: <eefchak@gmail.com>

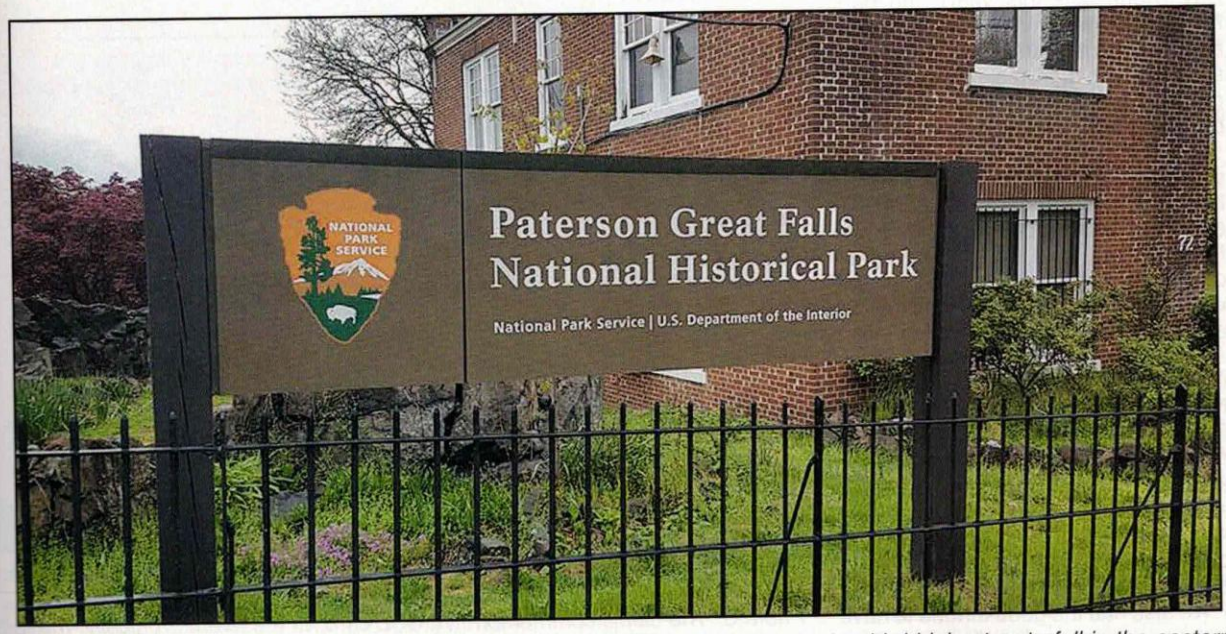

NATIONAL PARK SERVICE
Paterson Great Falls
National Historical Park
National Park Service | U.S. Department of the Interior

Photo A. Paterson Great Falls National Historic Park in New Jersey is home to the third-highest waterfall in the eastern United States and where Alexander Hamilton built the nation's first planned industrial city. (Photos by the author)

Photo B. The Fair Lawn Amateur Radio Club was looking for ways to increase its visibility in the community. A National Parks on the Air (NPOTA) special event station from Great Falls on Earth Day was a perfect opportunity.

bratory year was to initiate more community outreach, with the goals of increasing awareness to both the club and amateur radio (*Photo B*). The club has about 80 members, and is fortunate to be one of the few in the area with its own clubhouse and five operating stations (see <www.flarc.net>).

Laying the Groundwork

We visited the park in early February and met with Ilyse Goldman, Supervisory Park Ranger, who not only thought our plan to operate at the park was a great one, but she also suggested an event that she thought would get us large visibility. Each year on Earth Day (April 22nd this year), the park holds a large environmental event, bringing in hundreds of students to act as volunteers to help clean up the park grounds, and includes a science fair for both students and the general public.

We collectively thought this was a great partnership opportunity — both the club and the park were having anniversaries, the park could leverage from NPOTA, and the club could increase its visibility by being part of a well-established and large public event aside from putting "HP34" on the air.

We also felt that, in following some of the early NPOTA activations, the ARRL/NPS partnership would get much better visibility by being a part of a public event rather than sitting on a picnic table or in a car, operating individually on little or short notice. Sure, hams might learn all 485 parks, but both the park service and clubs like ours get more exposure by being visible together.

We also had the good fortune to have a more than receptive National Park Service audience. Goldman's father had been a ham for many years and she had grown up with the sound of CW chirping next to her bedroom. She was not only familiar with ham lingo, but also casually dropped in such words as "dipole" and "transceiver" as part of her vocabulary with us. When we later met with Superintendent Darren Boch to confirm our plans, it turned out he had lived in Fair Lawn and had some warm memories. We were among friends.

Planning the Operation

Our plans were to operate two stations — HF (primarily 20 meters) and VHF. We planned on having a public display of the station with lots of collateral promotional material, displays and demonstrations, and a commemorative Great Falls National Historical Park (HP34) QSL card (*Photo C*). Not only would the QSL be made available to the amateurs we contacted, but we also used it as confirmation of operating our station by students and the general public.

Our marketing and public relations outreach was to all local media in conjunction with the park and its other event partners[1]; social media, the League's Hudson Division Bulletin, and leveraging our large in-house email list to local amateurs and clubs. We invited hams who were not club members to come visit, but also to "stand by" on the local

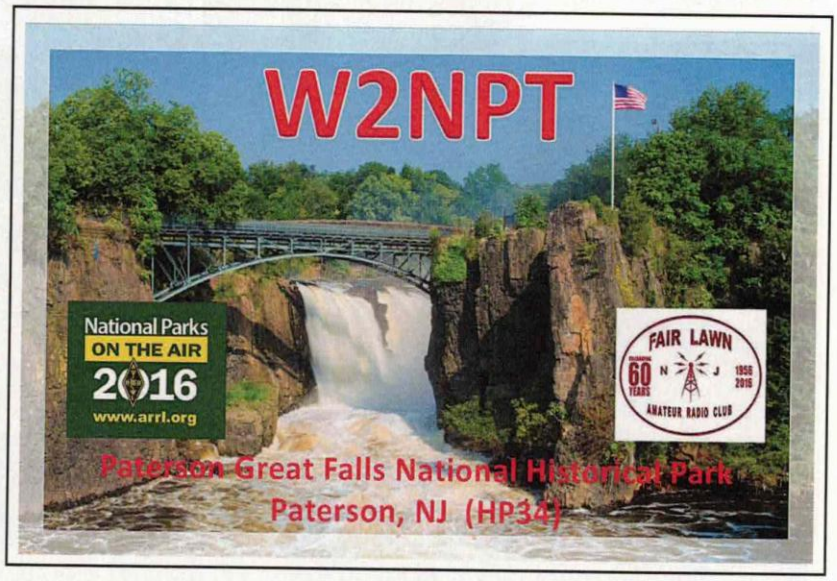


Photo C. The club's commemorative QSL card for the event. Ironically, the falls were "shut off" for the day when the operation took place, with water diverted to allow volunteers to clean up the riverbed.

repeater to not only contact us, but also to speak with our "guest operators" of students and interested individuals.

A Perfect Day

After a threat of afternoon rain subsided, Earth Day brought nearly perfect weather for a special event station. More than 300 students descended on the park, with the superintendent noting the event had been the largest and most effective clean-up to date. As an added bonus, reduced spring rain created the opportunity to divert flow away from the falls to create a rare "waterless" waterfall, which facilitated clean-up for the day. The novelty no doubt increased the visitor count for Earth Day.

After completing their assignments, the students and adult volunteers came in waves to visit our station (*Photo D*). Club volunteers tutored over 100 students in the art of getting on the air, learning CW for fun and knowledge, and watching the club's hams make over 500 QSOs. The weather held out and for some hours, we even operated a second HF station on 40 meters.

For most visitors, ham radio was either something new ("They talked to Alaska?"), old ("I didn't know they still did that!"), amazing ("we're learning Morse Code in school — it's really real!"), or brought back a memory ("my neighbor/dad/fill in the blank used to do that").

The weekend brought a lot of energy, enthusiasm, and fun for club members. The 33 club volunteers who worked the weekend came away tired but proud to be FLARC members. Comments included: "It was very well-received by everyone I spoke to. Teachers on Earth Day were delighted to see their students participating in CW and 2-meter operating." / "The surge of young people (to clean the park) was unexpected and made the event more than successful. The weekend enabled more club hams to participate, operate and work together." / And, "It was a unique opportunity to showcase amateur radio before a demographic that we rarely reach — young minority students — it was a great interaction with the general public."

So ... what were our take-aways?

- That partnerships like NPOTA matter, and that operating at a public event brings great visibility for amateur radio and to our little club from a neighboring town;
- The club pushing itself under the rubric of a 60th anniversary was good for both morale and fraternity;
- It was an "out of the box" event regarding logistics. The club does Field Day in a public place, but it's the same one every year. Setting up in an unknown location forced us to think about emergency communications and differing operating procedures, turning it into an impromptu emergency communications exercise;
- That our fellow area hams were as much a part of this event as we were — there seemed to be a ham on the 2-meter repeater whenever we called CQ, willing to take whatever time it required to talk to students and encourage them to look more into our hobby; and
- That there was no downside for us in doing this event. It was different (and new); it had enthusiastic support from club members, and gave exposure to the club (again, one of our 60th anniversary goals).

Would we do it again? Not only an emphatic "yes" from the membership, but "*when?!*"

Note:

1. See <http://bit.ly/1VI85bC> for an example of local news coverage.

Photo D. Students and other visitors came to see the science fair — of which the ham station was a part — after finishing cleanup chores in the river and along its banks. Here, a FLARC member (in red shirt by railing) is helping a visitor complete a contact on 2 meters.

ham radio news *(from page 3)*

Comments Due October 11 on FCC "Symbol Rate" Proposal

The FCC has set a deadline of October 11 for comments on its so-called "symbol rate" proposal — a Notice of Proposed Rule Making issued in response to an ARRL petition. The NPRM calls for eliminating current ceilings on the "symbol rate" of HF digital signals but does not go along with ARRL's parallel request to replace them with maximum bandwidth limits. See "Digital Connection" on page 68 of this issue for an explanation of what "symbol rate" is all about and how the proposed change may affect all HF users, not just digital mode operators.

HRO Opens Milwaukee "Superstore"

Ham Radio Outlet has opened a new "superstore" at the former flagship location of Amateur Electronic Supply in Milwaukee, Wisconsin. AES announced a surprise shutdown of its entire business in July. HRO took over its phone and internet businesses and purchased the Milwaukee store, which it remodeled and reopened in late August. According to HRO, the new facility is the largest amateur radio retail store in North America.

Replacement for ARRL UHF Contest

The ARRL board has approved creation of a new "222 MHz and Up Distance Contest" to replace the August UHF Contest, which the League discontinued earlier this year. The new event will launch next year and will feature scoring based on the distance covered in each contact.

Contest Corner

August, 2026 Contests

By: Fred, KR2H

Here's a list of contests that may be of interest to FLARC members.

Reminders:

1) Please read all entries carefully.
Some day/times noted in UTC actually begin the previous day in local time.

2) HF contest bands are defined as 160 through 10 Meters (excluding WARC bands).

Aug. 5 – Phone Weekly Test – 0230Z to 0300Z Wed. Aug. 5 (10:30 PM EDT to 11:00 PM EDT Tuesday, July 4). Rules: http://www.perluma.com/Phone_Fray_Contest_Rules.pdf

Aug. 8 – Worked All Europe (WAE) DX Contest CW – 0000Z Aug. 8 to 2359Z Aug. 9 (8:00 PM EDT Friday, Aug. 7 to 7:59 PM EDT Saturday, Aug. 8).
Rules: https://www.darc.de/der-club/referate/conteste/wae-dx-contest/en/wae-rules/

Aug. 8 – Maryland-DC QSO Party – 1400Z Sat. Aug. 8 to 0400Z Sun. Aug. 9 (10AM EDT Sat. to 12 Midnight EDT Saturday night).
Rules: https://w3vpr.org/maryland-dc_qso_party

NOTE: Rules not posted as this is written. Please check the above link before start of the contest.

Aug. 8 – Kentucky State Parks on the Air – 1400Z to 2200Z Sat. (10:00 AM EDT to 6 PM EDT Sat.).
Rules: https://k4msu.com/wp-content/uploads/2026/01/kypota-rules-26.2.pdf

Aug. 11 – Worldwide SSB Activity Contest – 0100Z to 0159Z Tues., Aug. 11 (9:00 PM EDT to 9:59 PM EDT Monday, Aug. 10). Rules: https://wwsac.com/rules.html

Aug. 15 – North American QSO Party, SSB – 1800Z (2 PM EDT Sat. Aug. 15) to 0559Z (12:59 AM EDT, Sun., Aug. 16). Rules: https://www.ncjweb.com/NAQP-Rules.pdf

Aug. 18 – Worldwide SSB Activity Contest – 0100Z to 0159Z Tue., Aug. 18 (9:00 PM EDT to 9:59 PM EDT Mon., Aug. 17). Rules: https://wwsac.com/rules.html

Aug, 19 – Phone Weekly Test – 0230Z to 0300Z Wed., Aug, 19 (9:30 PM EDT to 10:00 PM EDT, Tue. Aug. 18).
Rules: http://www.perluma.com/Phone_Fray_Contest_Rules.pdf

Aug, 22 – YO DX Contest (Romania) – 1200Z Sat., Aug. 22 to 1200Z Sun. Aug. 23. (8 AM EDT Sat., Aug. 22 to 8 AM EDT Sun., Aug. 23. Rules: https://www.yodx.ro/

NOTE: Rules not posted as this is written. Please check the above link before start of the contest.

Aug. 22 – Hawaii QSO Party – 1600Z Sat., Aug. 22 (12 Noon EDT Sat., Aug. 22) to 0200Z Mon., Aug. 24 (9:00 PM EDT Sun., Aug. 23). Rules: https://www.hawaiiqsoparty.org/

Contest Corner, continued

Aug. 22 – Ohio QSO Party – 1600Z Sat., Aug. 22 to 0400Z Sun., Aug. 23
(12 Noon EDT Sat., Aug. 22 to 12 Midnight EDT, Sat., Aug. 22).
Rules: https://www.ohqp.org/index.php/rules/

Aug, 25 – Worldwide SSB Activity Contest – 0100Z to 0159Z Tue., Aug. 25
(9:00 PM EDT to 9:59 PM EDT Mon, Aug, 24). Rules: https://wwsac.com/rules.html

Aug. 26 – Phone Weekly Test – 0230Z to 0300Z Wed., Aug. 26.
(10:30 PM EDT to 11:00 PM EDT, Tue., Aug. 25).
Rules: http://www.perluma.com/Phone_Fray_Contest_Rules.pdf

Aug, 29 – U.S. Islands QSO Party – 1200Z Sat., Aug. 29 to 0300Z Sun. Aug.30
(8:00 AM EDT Sat. Aug. 29 to 10:00 PM EDT Sun., Aug. 30). Rules: https://usislands.org/qso-party-rules/

Aug. 29 – Worldwide Digi DX Contest – 1200Z Sat., Aug. 29 to 1200Z Sun., Aug. 30
(8:00 AM EDT Sat., Aug. 29 to 8:00 AM EDT, Sun., Aug. 30). Rules: https://ww-digi.com/rules/

Aug. 29 – Kansas QSO Party – TWO SESSIONS: 1400Z Sat., Aug. 29 to 0200Z Sun. Aug, 30
(8:00 AM EDT to 9:00 PM EDT Saturday, Aug. 29)
AND 1400Z to 2000Z Sun., Aug. 30 (8:00 AM EDT to 4:00 PM EDT Sun., Aug. 30).
Rules: https://ksqsoparty.org/rules/KSQPRules2025.pdf?1

If you have operated in any of these contests and would like to share your comments on them, please contact me at: fbelghaus@gmail.com

Until next month…

73, Fred KR2H

PRIMARY SOURCES FOR INFO: A.R.R.L. and https://www.contestcalendar.com/contestcal.php

J62K Youth Adventure – 2027 Selection Announcement

The J62K Youth Adventure is proud to announce the selection of Haley Pendell (KE2EVX) and Hope Lea (ND2L) to participate in the 2027 CQ WPX SSB Contest from the internationally recognized J62K contest station in St. Lucia.

Interest in this year's program reached an all-time high, with a record number of applications received from talented young amateur radio operators. The depth and quality of the applicant pool made the selection process the most competitive since the initiative was established.

Applicants were evaluated through a merit-based review that considered amateur radio experience, operating achievements, personal essays, commitment to contesting, and leadership potential. Following a comprehensive evaluation by the J62K Youth Selection Committee, Haley and Hope were selected to represent the 2027 program.

The J62K Youth Adventure continues to grow through the generosity of amateur radio clubs, organizations, individual donors, mentors, and volunteers who share a commitment to developing the next generation of contesters. Their support helps ensure that participation is based on merit rather than financial circumstance.

About the J62K Youth Adventure

Established to inspire and develop the next generation of contesters, the J62K Youth Adventure provides promising young amateur radio operators with the opportunity to participate in world-class DX contesting while receiving one-on-one mentoring from experienced international operators. Through immersive, hands-on participation, the program develops advanced operating skills, promotes excellence in contesting, and fosters lifelong engagement in amateur radio.

To learn more about the J62K Youth Adventure, including its mission, program objectives, past participants, supporters, and the J62K contest station, visit J62K.com at https://j62k.com/

ATTENTION!
FLARC MEMBERS
PAY YOUR DUES
ONLINE NOW!
FAIR LAWN
70 YEARS
N J
1956 2026
AMATEUR RADIO CLUB
NEW DUES, RENEWAL, & DONATIONS CAN BE SENT VIA ZELLE!
PAST DUE PAYMENTS NEEDED
ASAP TO KEEP YOUR MEMBERSHIP ACTIVE.
Zelle
PAY ASAP
Log into your Zelle account
Use phone number 201-240-9317 as the recipient
Include your Call Sign & year(s) in the notes section
LOG IN AND PAY YOUR DUES BEFORE YOU MISS OUT!
If you need help, or want added assurance – email
treasurer@FairLawnARC.org
Visit: www.FairLawnARC.org for more info!

Located in the
Fair Lawn Recreation and Community Center
10-10 20th Street
Fair Lawn, NJ 07410

MEMBERSHIP / RENEWAL FORM

Name: _____ Call: _____
Address: _____ Apt. #: _____
City: _____ State: _____ Zip: _____
Published Phone #: _____ Unpublished phone #: _____
Email: _____ License Class? _____
Check all that apply: __ ARRL member? __ VE? __ ARES member? __ RACES member? __ CERT member?

Renewal of Current Membership	$ 25	$ _____
Introductory & Student Membership (Students under age 18) (Introductory membership open to new members or not-a-member for last 7 years)	$ 20	$ _____
Three year renewal incentive	$ 65	$ _____
Life membership	$ 625	$ _____
Senior life membership (age 65 or over)	$ 250	$ _____
Associate Membership Open to Fair Lawn residents only; No voting rights or other privileges.	(no fee)	$ _____
Additional Family Members ($5 each per year) List each family member (in same household) below:		$ _____
Name:	$ 5/year	$ _____
Name:	$ 5/year	$ _____
Name:	$ 5/year	$ _____
Optional Equipment Fund Donation		$ _____
		======
Total submitted:		$ _____

Signed: _____ Date: _____

I hereby acknowledge the ByLaws and rules and reulations of the club and will abide by them as amended.

NOTE: Membership is from January 1st through December 31st of any given year, except that New Members paying Introductory Membership after October 1st will be paid through December 31st of the following year.

Please make check payable to "**Fair Lawn Amateur Radio Club**" and send check and this form to:
Fair Lawn ARC, Attn: Secretary, 10-10 20th St., Fair Lawn, NJ 07410.

Payment can also be made on-line using Zelle. Please see instructions at
https://membership.FairLawnARC.org
and send screen-shot of Zelle receipt to Secretary@FairLawnARC.org
This form must also be submitted, either paper copy or PDF copy or scan:
(PDF or scan of this form may be attached to the email with the Zelle confirm)

Last rev. 260422

August 2026
FLARC Business Meeting Minutes

FLARC Monthly Meeting
August 7, 2026

Quick recap

This was a FLARC (Fair Lawn Amateur Radio Club) business meeting held on a stormy evening, with members joining via Zoom and in-person.

President Nomar NP4H led the meeting, opening with the Pledge of Allegiance and conducting roll call to confirm quorum. The board approved minutes from the previous meeting as published in the Resonator, and Secretary Jim W2JC announced that insurance renewal was being reviewed with potential savings of $1200.

Gene WO2W provided updates on the upcoming Sunday picnic, reporting that approximately 65 people had signed up and that paella would be served alongside standard hamburgers and hot dogs.

Karl W2KBF demonstrated a tape measure beam antenna and explained plans for a fox hunt activity during the picnic, while Gene WO2W reported that the VE [Volunteer Examiner] team had successfully completed their first paperless testing session using new tablets purchased by the club for this purpose.

Treasurer Bob N2SU presented financial updates showing total funds, including revenue from repeater antenna sales and paella donations.

The technical committee chairman, Dave WO2X, reported that position one radio issues had been resolved and that Fred W2ABE had installed a ham clock above position one.

David K2DBK presented survey results regarding the DMR repeater, which showed 24 out of 26 responding members did not use it, leading to a discussion about potentially disabling the system due to noise interference and limited functionality.

The conversation ended with announcements about upcoming events including the New Jersey QSO party on September 12th and a lighthouse operation at Stony Point NY the following weekend.

Next steps

David WO2X

- Message Paul W2IP to check the Echolink equipment, as the node appears to be down.
- Sit down with a regular user of the position 1 radio to configure and save settings to an SD card.

Gene WO2W

- Arrange with Jimmy Graf to keep the clubhouse open for the New Jersey QSO Party on September 12th, potentially for a longer period than normal hours.
- Help any interested members to register as a VE for the new online testing process.

Continued on next page.

August 2026 FLARC Business Meeting, cont'd.

Judith KC2LTM

- Send a card to David WO2X's wife to let her know she's in the club's thoughts (requires her name from Nomar NP4H).

Jim W2JC

- Send out a map and details for the Stony Point Lighthouse event next weekend.

Collaboration

- Technical Committee: Make a decision on disabling the DMR repeater based on the survey results presented by David K2DBK.
- Karl W2KBF and Nomar NP4H: Organize a kit-building night for tape measure beam antennas; interested members should contact them.

Summary

Event Planning and Logistics Meeting

Judith KC2LTM suggested bringing coffee mugs for sale at Sunday's event, which Gene agreed was a good idea. The group briefly discussed current weather conditions, with David K2DBK mentioning storm activity in his area and Gene WO2W noting similar weather in Clifton and flooding in the Fair Lawn area. The meeting formally started at 7:30 with the Pledge of Allegiance, followed by Nomar NP4H requesting the secretary to conduct roll call; all officers except W2DLT were present, and Van was known to be on the way to the meeting – so a quorum was present permitting the conduct of business.

Board Meeting Updates and Planning

The board meeting was held with a quorum present, including Gene WO2W participating via Zoom. The minutes from the previous meeting were approved as distributed. The board discussed insurance renewal scheduled for the 19th, with potential savings of $1200 being reviewed. The conversation ended with updates about upcoming events including a picnic and fox hunt on Sunday, and the receipt of thank you letters from the Borough of Fairlawn regarding Memorial Day Parade assistance and a future fireworks event and from the family of Jim Joyce K2ZO thanking the club for its condolences.

Repeater Purchase and Picnic Plans

Gene WO2W announced that Bruce N2XP purchased the old repeater antenna, with proceeds going to the treasury. Gene also detailed plans for the upcoming picnic on Sunday, expecting around 65 attendees, featuring paella, hamburgers, hot dogs, and beverages. Nomar NP4H assured members that despite the event being planned for 40 people, there would be enough food for everyone, and mentioned that the chef, who is also a Mason, might become interested in ham radio.

Time Differential Arrival Device Demo

Karl demonstrated a time differential of arrival device using a tape measure beam for an upcoming fox hunt event on Sunday at Memorial Park. He explained how the device works by switching between two antennas to determine the direction of a signal, though it has a 180-degree ambiguity. The device costs around $30 and can be built as a kit, with Karl suggesting an offset attenuator as an alternative project for the club. The group discussed potentially organizing a new antenna building project for club members, similar to one Karl had done in the past.

Continued on next page.

August 2026 FLARC Business Meeting, cont'd.

Tape Measure Antenna Project Discussion

The group discussed building tape measure beam antennas, with Nomar NP4H mentioning they cost about $20 and offering to schedule a kit building night. Such an antenna can be used during "Fox Hunts" as well as at other times.

Bob N2SU presented the Treasurer's Report, revealing the club's current balance, with recent revenue including $700 from repeater antenna sales and various membership and donation amounts. Bob announced this would likely be his final treasurer's report in person, as he will be unavailable during the high school football season starting in September.

VE Team Paperless Testing Transition

Gene WO2W reported on the VE team's transition to paperless testing, explaining that ARRL is pushing for all-paperless testing by 2027 and that four new tablets were purchased for approximately $200 to facilitate this change.

David WO2X provided an update on clubhouse equipment, mentioning he would be less active due to knee surgery and his wife's cancer diagnosis, and noted that position one's radio configuration issue had been resolved. He also reported that Echolink was down and would he message Paul W2IP to check the equipment, clarifying that the WO2X repeater does not have Echolink connection.

Amateur Radio Club Meeting Updates

The meeting covered several topics including amateur radio activities and upcoming events. Van W2DLT welcomed a neighbor of his from Pennsylvania (Clint Estes, KA4RBW), a novice licensee, to the group and discussed novice license privileges.

Gene WO2W announced the New Jersey QSO party on September 12th from 10 AM to 10 PM, and Jim W2JC shared details about the upcoming Lighthouse weekend event at Stony Point Lighthouse on September 15-16, where the club will operate with a special call sign **W2L**.

David-K2DBK presented survey results regarding the DMR repeater, which showed 24 out of 26 members don't use it, and the technical committee was tasked with making a decision about disabling it.

The conversation ended with Fred W2ABE mentioning he had left a smaller antenna launcher and antenna equipment at the club for member use.

Motion was made, seconded and voted affirmatively to adjourn the meeting at 20:25 EDT.

[Meeting summary / minutes created by Zoom AI, with extensive editing by club Secretary W2JC]